



# BIOCHEM LABORATORIES

## The Chemical & Microbiological Laboratory

Since 1977, BIOCHEM Lab provides comprehensive lab services in the Chemical, Microbiological Analysis to global clients & partners.





**Reliable Services You Can Trust**

Assuring Product Quality & Safety Since 1977



## VISION

*To be a leading & globally recognized analytical & environmental laboratory.*



## MISSION

*To be a testing laboratory providing accurate & reliable testing results at competitive price.*



## Biochem Laboratories Sdn Bhd

Started its operation in the year 1977 offering chemical and microbiological testing services and it has since flourished to become a fully- equipped testing and analysis laboratory with state of the art facilities. Biochem Laboratories Sdn Bhd is an accredited laboratory (ISO/IEC 17025:2017) that provides a wide range of analytical testing solutions, tailored to meet the stringent quality requirements of customers from various industries.

Keeping abreast with the latest trends and fulfilling customer needs, Biochem Laboratories Sdn Bhd has evolved with new business innovations and eventually came to incorporate environmental, health and safety consultancy services. The consultancy services include noise and chemical monitoring as well as Chemical Health Risk Assessment (CHRA), which is mandatory for employers to conduct under the Occupational Safety and Health Act (OSHA).

In essence, regardless of the services you wish to acquire from Biochem, you are sure to find a team of qualified professionals committed to produce dependable results at competitive prices. We deliver your business needs with the right solution.

Biochem Laboratories Sdn Bhd 成立于 1977 年，本化验室提供化学和微生物检测服务，此后蓬勃发展，持续引进先进的分析仪器设施，并拥有设备齐全的检测和分析实验室。 Biochem Laboratories Sdn Bhd 是一家获得国家政府与国际标准组织认可的化验室 (ISO / IEC 17025 : 2017)。我们提供广泛的分析测试解决方案，旨在满足各个行业客户的严格质量与品质要求。

Biochem Laboratories Sdn Bhd 也融入了公共卫生及安全、环境保护咨询服务；例如噪声和化学监测以及化学健康风险评估 (CHRA)。

基本上，您会找到一支由合格的专业人员组成的团队，以优惠的价格提供优质的服务。我们化验所专业的解决方案能满足您的业务需求。



# OUR SERVICES

## *Industries We Serve*

The following are the services that we offer for various industries:



### ELECTRICAL & ELECTRONIC TESTING

- General Micro-contamination
- Chemical Analysis
- Ultrapure Water Analysis
- Cleanroom Components & Consumables Analysis
- Cleanroom Airborne Molecular Contaminants
- Restriction of Hazardous Substances (RoHS)
- SEM-EDX

### FOOD TESTING

- Nutritional Labeling
- Pesticide Residues
- Oils & Fats
- Trace Metals
- Heavy Metals
- Food Safety

### MICROBIOLOGICAL TESTING

- Raw Materials and Finished Products
- Water Used In and During Production
- Environmental Air Monitoring and Surface Sampling (Hygiene Monitoring)

### INDUSTRIAL MONITORING

#### Environmental Monitoring & Testing

- Water & Effluent
- Ambient Air
- Border / Boundary Noise
- Chimney Emission
- Generator Set
- Waste Water Characterization Work

#### Industrial Hygiene Testing & Consulting

- CHRA (Chemical Health Risk Assessment)
- CEM (Chemical Exposure Monitoring)
- LEV (Local Exhaust Ventilation)
- NRA (Noise Risk Assessment)
- Audiometry Testing (on site)]
- Lighting Monitoring
- Safety Training: General Workplace Safety, Safe Handling of Chemical

### PHARMACEUTICAL & TRADITIONAL MEDICINE TESTING

- Volatile Organic Impurities
- Metals Analysis
- Specific Optical Rotation

### MOBILE AUDIOMETRY TESTING SERVICE

- Provide mobile audiometry test on site with DOSH approval. Our audiometry van is a twin cabin
- (with air conditioned) audiometry booth.



# Lab Capabilities

We provide analytical services in three independent areas:  
Chemistry, Microbiology & Consultancy Services.

## (I) Chemical Analysis

### Organic Analysis

- GC (Gas Chromatography) with FID
- GC/MS (Gas Chromatography with Mass Spectrometry Detector) (Static & Dynamic Headspace)
- FTIR (Fourier Transform Infrared Spectroscopy)
- LPC (Liquid Particle Counter)
- UV-Vis (Ultraviolet-Visible) Spectroscopy
- TOC (Total Organic Carbon) Analyzer
- HPLC (High Performance Liquid Chromatography)

### Classical Wet Chemical Methods

- pH / Conductivity
- Karl Fischer (determination of water)
- Gravimetric Method
- Titration
- Thin Layer Chromatography (TLC)

### Inorganic Analysis

- AA (Atomic Absorption)
- IC (Ion Chromatography)
- ICP-OES (Inductive Couple Plasma-Optical Emission Spectrometry)

### Major Work Areas for Chemical Analysis

- Environmental Monitoring (Air Monitoring)
- Water Analysis (Portable / Effluent)
- Product Testing (eg: heavy metals, solvents)
- Semi-conductor microcontamination analysis
- Food Analysis
- Oils & Fats / Oleochemicals
- Failure Analysis
- Pesticide Residues
- RoHS Analysis
- Karl Fischer (Moisture Determination)



**Innovation Solutions for  
Laboratory Analysis**

Quality | Reliable | Accurate



## (II) Microbiology Analysis

### Facilities Available In Microbiology Lab

- Air Sampler :
  - (a) High Flow Touch Microbial Air Sampler
  - (b) IUL Air Sampler (Spin Air Basic)
- EZ-Stream Pump & EZ-Fit Manifold
- Microscopes
- Floor Type Autoclaves
- Water Baths (with circulating pump)
- Incubators
- Ovens
- Laminar Flows
- Stomacher Bag Mixer
- Laboratory Balances
- Humidity Chamber

### Major Work Areas for Microbiology Analysis

- Food / Frozen Food / Seafood
- Cosmetics
- DI Water Analysis for semiconductor industry
- Traditional Herbs Analysis
- Environmental Monitoring
- Drinking & Potable Water

## (III) Consultancy Services

- Noise Risk Assessment
- Environmental Noise Limits & Control
- Inorganic Lead Monitoring
- Air Emission Monitoring –  
Scrubber & Stack, Isokinetic
- Dust Monitoring – Inhalable / Respirable  
Local Exhaust Ventilation Examination &  
Effectiveness as per USECHH  
Regulation 2000 (OSHA)
- Chemical Exposure Monitoring –  
Personal / Ambient
- Chemical Health Risk Assessment as per  
USECHH Regulation 2000 (OSHA) Part IV
- Mobile Audiometric Testing (On Site Testing)
- Indoor Lighting Monitoring
- Noise Mapping



## Precise Chemical & Microbiological Testing

High Accuracy Lab Tests for Every Industry





## CONTACT US

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## Accreditation & Professional Registration



MS ISO/IEC 17025  
TESTING SAMM NO.020



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DOSH MALAYSIA  
HYGIENE TECHNICIANS  
NOISE RISK &  
CHRA ASSESSORS



ROYAL SOCIETY OF  
CHEMISTRY (UK)  
CHARTERED CHEMIST



*To make appointment or for more information on  
The Audiometry Testing Service,  
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